COLTON

Colton Water
Reclamation Facility
1201 S. Rancho Ave
Colton, CA 92324
(909) 825-4114

March 5, 2001

Ms. Lauren Foundahl
U.S. EPA Region 9
ATTN: W-5-3, NPDES/DMR
75 Hawthorne St.
San Francisco, CA 94105

RE: BIO-SOLIDS ANNUAL REPORT (40 CFR PART 503)
JANUARY- DECEMBER 2000

Dear Ms. Foundahl:

Enclosed is the City of Colton's Water Reclamation Facility 1998 Annual Bio-Solids Disposal Report.

Thank you for the extension on the report due date. I had a problem getting the information from RPI / BIO Gro.

The contents of the report include: The total wet tonnage of bio-solids hauled from the facility, the lab results, the pollutant analysis, the Class "B" pathogen requirements certification, the Class "B" vector attraction reduction requirements certification, and the hauler's names and addresses.

All constituents are below pollutant limits.

Sincerely,

William F. Roth
Wastewater Utility Manager

WFR/dew

CIVIC CENTER
650 N. LA CADENA DRIVE
COLTON, CALIFORNIA 92324
(909) 370-5060
(909) 370-5192 FAX

- **SIGN THE CERTIFICATION STATEMENT**

"I certify under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirements in 503.33(b)(1) have been met. The determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements [and the vector attraction requirements if applicable] have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

William F Rotz 3/5/01

- **Describe how the Class B pathogen requirements are met.**

The pathogen requirements were met by air drying the bio-solids for a period of over three months with the ambient tempeture over 0 degree's Celsius at least two months of the three-month peroid.

- **If applicable, describe how the vector attraction reduction requirements 1 to 8 are met.**

The vector attraction reduction requirements were met by anaerobic digestion with a volatile reduction of 38% or more.

2. Applicator

If you apply the sludge, and the sludge meets the criteria listed above for pollutants, pathogen requirements, and vector attraction reduction requirements, then the following information should be developed and retained for five years.

COLTON SOLIDS DISPOSAL REPORT

JANUARY - DECEMBER 2000

MONTH	BIOSOLIDS WET TONS	GRIT CU/YDS	SCREENINGS CU/YDS
JAN.	649.84	0	23.25
FEB.	0	0	23.25
MAR.	1077.63	0	23.25
APR.	344.69	0	23.25
MAY	600.62	70	23.25
JUN.	0	0	23.25
JUL.	0	0	23.25
AUG.	0	0	23.25
SEP.	0	0	23.25
OCT.	0	0	23.25
NOV.	0	0	23.25
DEC.	0	0	23.25
TOTAL	2672.78	70	279.00

* RPI/BIO GRO STARTED HAULING IN MARCH 2000

Hauled 1.638 million gallons of primary and digested sludge to San Bernardino WRP for processing and disposal from April to July 2000.

DESTINATION OF SOLIDS

HAULER	TYPE	USE	DESTINATION
SYNAGRO/ PIMA GRO	BIOSOLIDS	LAND APPLICATION	SYNAGRO/PIMA GRO P.O. BOX 7027 CORONA, CA. 92878-7027
RPI/BIO GRO	BIOSOLIDS	LAND APPLICATION	RPI/BIO GRO RIVERSIDE COUNTY
COLTON DISPOSAL	SCREENINGS & GRIT	LAND FILL	COUNTY LAND FILL 850 TROPICA RANCHO RD. COLTON, CA. 92324

Pollutants

The concentration of all the pollutants in your sludge must be below the limit concentration listed in Table 3 [reference 503.13 (b)(3)].

Table 3 Pollutant Limits for No Loading Rates Restrictions		
Pollutant	Limits (mg/kg)	NSSS Mean (mg/kg)
Arsenic	41	ND
Cadmium	39	1
Chromium	1200	35
Copper	1500	120
Lead	300	140
Mercury	17	0.9
Molybdnum	18	2
Nickel	420	29
Selenium	36	ND
Zicn	2800	330
Dry Weight Basis		

Stock pile #1, Dry sludge hauled in January 2000, 649.84 wet tons.

ND- None detected at Reporting Limit

Pollutants

The concentration of all the pollutants in your sludge must be below the limit concentration listed in Table 3 [reference 503.13 (b)(3)].

Table 3 Pollutant Limits for No Loading Rates Restrictions		
Pollutant	Limits (mg/kg)	NSSS Mean (mg/kg)
Arsenic	41	ND
Cadmium	39	1
Chromium	1200	35
Copper	1500	150
Lead	300	140
Mercury	17	1.1
Molybdnum	18	3
Nickel	420	30
Selenium	36	ND
Zicn	2800	390
Dry Weight Basis		

Stock pile #2, Dry sludge hauled in January 2000, 649.84 wet tons.

ND- None detected at Reporting Limit

Pollutants

The concentration of all the pollutants in your sludge must be below the limit concentration listed in Table 3 [reference 503.13 (b)(3)].

Table 3 Pollutant Limits for No Loading Rates Restrictions		
Pollutant	Limits (mg/kg)	NSSS Mean (mg/kg)
Arsenic	41	ND
Cadmium	39	1
Chromium	1200	31
Copper	1500	200
Lead	300	100
Mercury	17	1.4
Molybdnum	18	4
Nickel	420	19
Selenium	36	ND
Zicn	2800	510
Dry Weight Basis		

Stock pile #6, Dry sludge hauled in March, April, & May 2000, 2022.94 wet tons.

ND- None detected at Reporting Limit

Pollutants

The concentration of all the pollutants in your sludge must be below the limit concentration listed in Table 3 [reference 503.13 (b)(3)].

Table 3 Pollutant Limits for No Loading Rates Restrictions		
Pollutant	Limits (mg/kg)	NSSS Mean (mg/kg)
Arsenic	41	ND
Cadmium	39	1
Chromium	1200	37
Copper	1500	150
Lead	300	140
Mercury	17	1.4
Molybdnum	18	3
Nickel	420	30
Selenium	36	ND
Zicn	2800	430
Dry Weight Basis		

Stock pile #7, Dry sludge hauled in March, April, & May 2000, 2022.94 wet tons.

ND- None detected at Reporting Limit

Pollutants

The concentration of all the pollutants in your sludge must be below the limit concentration listed in Table 3 [reference 503.13 (b)(3)].

Table 3 Pollutant Limits for No Loading Rates Restrictions		
Pollutant	Limits (mg/kg)	NSSS Mean (mg/kg)
Arsenic	41	ND
Cadmium	39	2
Chromium	1200	56
Copper	1500	210
Lead	300	170
Mercury	17	1.9
Molybdnum	18	5
Nickel	420	57
Selenium	36	ND
Zicn	2800	620
Dry Weight Basis		

Stock pile #8, Dry sludge hauled in March, April, & May 2000, 2022.94 wet tons.

ND- None detected at Reporting Limit

DIGESTED SLUDGE AT COLTON WATER RECLAMATION FACILITY
VOLITLE REDUCTION

DATE	PLANT 1 PRI. SLUDGE % VOLITLE	PLANT 2 PRI. SLUDGE % VOLITLE	DAF SLUDGE % VOLITLE	DIGESTER % VOLITLE IN	PRI. DIG. % VOLITLE OUT	SEC. DIG. % VOLITLE OUT	PRIMARY DIGESTER REDUCTION	SECONDARY DIGESTER REDUCTION
Jan. 5, 2000	79.4%	77.8%	79.3%	78.8%	65.5%	64.8%	48.9%	50.5%
Jan. 12, 2000	79.2%	84.8%	75.5%	79.8%	65.7%	64.8%	51.5%	53.4%
Jan. 19, 2000	80.9%	85.7%	78.3%	81.6%	69.2%	67.6%	49.4%	53.0%
Jan. 26, 2000	80.8%	83.9%	74.0%	79.6%	69.2%	68.3%	42.4%	44.8%
Feb. 2, 2000	86.3%	86.6%	82.3%	85.1%	72.9%	72.6%	52.8%	53.6%
Feb. 9, 2000	88.2%	86.5%	**	87.4%	70.9%	74.0%	65.0%	59.0%
Feb. 16, 2000	85.9%	86.0%	80.6%	84.2%	69.1%	69.2%	58.1%	57.9%
Feb. 23, 2000	83.1%	83.1%	77.5%	81.2%	67.2%	66.7%	52.6%	53.7%
Mar. 1, 2000	84.7%	82.5%	78.1%	81.8%	68.6%	67.2%	51.4%	54.5%
Mar. 8, 2000	85.2%	83.2%	80.5%	83.0%	69.6%	67.8%	53.2%	56.9%
Mar. 16, 2000	85.0%	82.9%	79.1%	82.3%	67.5%	66.5%	55.4%	57.2%
Mar. 20, 2000	84.4%	84.8%	80.3%	83.2%	68.7%	67.5%	55.8%	58.1%
Apr. 12,2000	82.5%	83.2%	78.7%	81.5%	61.4%	63.3%	63.8%	60.9%
Apr. 19, 2000	*	*	84.3%	84.3%	67.6%	66.0%	61.2%	63.8%
May 3, 2000	*	*	79.7%	79.7%	68.8%	66.7%	43.8%	49.1%
May 8, 2000	*	*	79.2%	79.2%	68.5%	67.0%	43.0%	46.7%
May 24, 2000	*	*	77.2%	77.2%	69.9%	68.2%	31.5%	36.7%
May 29, 2000	*	*	78.5%	78.5%	70.5%	69.8%	34.5%	36.7%
Average	83.5%	83.9%	79.0%	81.6%	68.4%	67.7%	50.8%	52.6%

*- Primary clarifer out of service
**- No sample

DIGESTED SLUDGE AT COLTON WATER RECLAMATION FACILITY
VOLITLE REDUCTION

DATE	PLANT 1 PRI. SLUDGE % VOLITLE	PLANT 2 PRI. SLUDGE % VOLITLE	DAF SLUDGE % VOLITLE	DIGESTER % VOLITLE IN	PRI. DIG. % VOLITLE OUT	SEC. DIG. % VOLITLE OUT	PRIMARY DIGESTER REDUCTION	SECONDARY DIGESTER REDUCTION
Jun. 7, 2000	*	83.5%	77.4%	80.5%	69.5%	67.8%	44.7%	49.0%
Jun. 21, 2000	*	79.5%	76.7%	78.1%	69.5%	68.4%	29.9%	39.3%
Jul. 5, 2000	*	67.4%	73.9%	70.7%	68.8%	67.8%	*8.6%	*12.7%
Jul. 12, 2000	*	81.7%	79.6%	80.7%	68.5%	68.4%	48.0%	48.2%
Jul. 19, 2000	*	77.5%	78.2%	77.9%	66.8%	68.0%	42.9%	39.8%
Jul. 26, 2000	76.4%	*	76.8%	76.6%	68.6%	67.2%	33.3%	37.5%
Aug. 2, 2000	75.7%	*	78.2%	77.0%	67.7%	66.8%	37.3%	39.8%
Aug. 9, 2000	74.1%	*	74.2%	74.2%	67.3%	66.3%	28.4%	31.6%
Aug. 16, 2000	74.8%	*	79.2%	77.0%	65.4%	67.4%	43.6%	38.2%
Aug. 23, 2000	77.1%	*	80.0%	78.6%	68.4%	68.1%	41.1%	41.8%
Aug. 31, 2000	78.4%	*	76.8%	77.6%	69.0%	67.8%	37.5%	44.0%
Sep.6, 2000	79.1%	*	76.9%	78.0%	68.7%	67.0%	38.1%	42.8%
Sep.13, 2000	82.0%	*	77.9%	80.0%	69.2%	66.9%	43.9%	49.4%
Oct. 4, 2000	85.2%	*	76.3%	80.8%	68.8%	67.2%	47.6%	51.3%
Oct. 11, 2000	84.5%	*	76.5%	80.5%	68.8%	67.6%	46.6%	49.4%
Oct. 18, 2000	84.5%	83.1%	79.1%	82.2%	70.6%	68.5%	55.2%	59.4%
Oct. 23, 2000	84.7%	84.6%	77.8%	82.4%	70.3%	68.3%	49.4%	54.0%
Nov. 1, 2000	84.3%	82.5%	72.0%	79.6%	69.8%	68.9%	40.8%	43.1%
Nov. 8, 2000	*	84.9%	77.1%	81.0%	68.4%	67.7%	49.2%	50.8%
Nov. 15, 2000	*	84.0%	71.8%	77.9%	68.2%	67.4%	39.1%	41.3%
Nov. 22, 2000	*	85.3%	78.0%	81.7%	68.7%	66.9%	50.8%	54.8%
Nov. 29, 2000	*	86.6%	79.5%	83.1%	69.0%	67.6%	54.7%	57.6%
Dec. 6, 2000	*	87.5%	80.3%	83.9%	69.5%	67.8%	56.3%	59.6%
Dec. 13, 2000	84.4%	86.4%	80.9%	83.9%	68.9%	67.5%	57.5%	60.1%
Dec. 20, 2000	86.8%	86.7%	78.3%	83.9%	68.9%	67.7%	57.5%	59.8%
Average	80.8%	82.7%	77.3%	79.5%	68.7%	67.6%	42.9%	45.7%

*- Primary clarifer out of service

SYNAGRO

A Residuals Management Company

Biosolids Land Application Annual Report

for

Synagro West, Inc.

2000

Synagro of California, Inc.
P.O. Box 7027
Corona, CA 92878-7027
909.277.2662

SYNAGRO

A Residuals Management Company

P.O. Box 7027, Corona CA 92878-7027
(909) 277-2662 Fax (909) 277-2957

February 7, 2001

William Roth
City of Colton
650 N. La Cadena Drive
Colton, CA 92324

Subject: 2000 Biosolids Land Application Data Summary
Synagro West, Inc.

Dear Mr. Roth:

The following information is a summary of biosolids land application data for 2000 as compiled by Synagro West, Inc. The data reported to you will be included in Synagro West, Inc.'s 2000 annual U.S. EPA 503 Biosolids Report submitted to EPA region 9. I will be submitting this report on or before February 19, 2001.

If you have information needs in addition to what I am presenting here, please contact me and I will respond immediately.

Synagro West, Inc. appreciates your business and I look forward to serving your technical needs in the coming year.

Sincerely,

Mark Grey, Ph.D.
Regional Technical Services Director

Enclosures

SYNAGRO

A Residuals Management Company

Colton

Biosolids Site Summary
January - December 2000

Start Date	End Date	Site	Source	Wet Tons	% Solids	Dry Tons	# of Loads
1/17/00	1/31/00	RDB-30	COLTON	649.84	70.93%	460.93	27
			Totals	**649.84**		**460.93**	**27**

RPI/Bio Gro
172 98th Avenue
Oakland, Ca 94603

4215 01 Colton, CA
Colton, CA Anaerobically Digested/Air Dried

Field: CA-SD-00002-0-0003

Date Applied		Total Applied	Unit
3/25/00		401.03	
3/26/00		369.88	
	Field Total-	770.91	490.36 DMT

Field: CA-SD-00002-0-0009

Date Applied		Total Applied	Unit
3/27/00		64.32	WT ANDAD
3/28/00		158.30	WT ANDAD
3/29/00		84.09	WT ANDAD
4/1/00		277.35	
4/2/00		67.34	
	Field Total-	651.40	414.34 DMT

Field CA-SD-00012-0-0001

Date Applied		Total applied	Unit
5/27/00		305.83	
	Field Total-	305.83	194.53 DMT

Field: CA-SD-00012-0-0002

Date Applied		Total Applied	
5/20/00		294.79	
	Field Total-	294.79	187.51 DMT

Project Total- 2022.93

NOTICE AND NECESSARY INFORMATION

This form is to assist compliance with the bulk sewage sludge notification requirements [503.12(f)]. Please note, however, that if the sewage sludge meets the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of sewage sludge to transmit information to land appliers and also by land appliers to transmit information to land owners or lease holders.

Part I - To Be Completed by PREPARERS of Sewage Sludge

A. Please provide pollutant concentrations

Name	Concentration (mg/kg) Dry Weight (mg/kg)	Pollutant Concentrations (Table 3, 40 CFR 503.13) (monthly average) (mg/kg)	Ceiling Concentrations* (Table 1, 40 CFR 503.13) (daily maximum) (mg/kg)
Arsenic	2.42	41	75
Cadmium	2.1	39	85
Chromium	76	1200	3000
Copper	202	1500	4300
Lead	165	300	840
Mercury	1.31	17	57
Molybdenum	15	---	75
Nickel	68	420	420
Selenium	1.80	36	100
Zinc	493	2800	7500
Nitrogen Concentration	TKN- 9600 Ammonia-N 300 Nitrte-N 769	N/A	N/A

*Sludge may not be land applied if any pollutant exceeds these values.

B. Pathogen Reduction (40 CFR 503.32) - Please indicate the level achieved
☐ Class A ☒ Class B

C. Vector Attraction Reduction (40 CFR 503.33) - Please indicate the option performed
☒ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4
☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8
☐ No vector attraction reduction options were performed

D. CERTIFICATION
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name and Official Title (type or print)	Area Code and Telephone Number
William F. Roth, Wastewater Utility Manager	(909) 825-7223
C. Signature	D. Date Signed

Attachment 1

A & L EASTERN AGRICULTURAL LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237 • (804) 743-9401
Fax No. (804) 271-6446

R036-179 ACCOUNT 11007
REPORT NUMBER

RPI/BIO GRO
172 98TH AVE
OAKLAND CA 94603-1004

COLTON

CHRIS MARKS
COPY TO: MILLERSVILLE

BIOSOLIDS ANALYSIS REPORT

LAB NUMBER = 40651
SAMPLE ID = COLTON

DATE SAMPLED 02/09/00
DATE RECEIVED 02/10/00
DATE REPORTED 02/15/00

PARAMETER	RESULT (%)	RESULT (MG/KG)	DETECTION LIMIT (MG/KG)	ANALYST	ANALYSIS DATE	METHOD REFERENCE
LEAD		165	5	JCM	02/11/00	SW 846-6010B
ARSENIC		2.42	0.4	KM	02/11/00	SW 846-7061A
MERCURY		1.31	0.1	KM	02/11/00	SW 846-7471A
SELENIUM		1.80	0.1	KM	02/11/00	SW 846-7741A
PH (STD.UNITS,AS IS)	6.20			RD	02/11/00	EPA 150.1
CALCIUM CARBONATE EQ	ND		100	LDR	02/11/00	AOAC 955.01
VOLATILE SOLIDS	13.36	133600	100	KCS	02/11/00	SM 2540G
ORGANIC NITROGEN	0.93	9300	100	DCH	02/11/00	CALCULATION
MOLYBDENUM		15	5	JCM	02/11/00	SW 846-6010B
BORON		17	1	JCM	02/11/00	SW 846-6010B

ALL VALUES ARE ON A DRY WEIGHT BASIS EXCEPT AS NOTED."

PAUL C. H. CHU

C. NORMAN JONES

A & L EASTERN AGRICULTURAL LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237 • (804) 743-9401
Fax No. (804) 271-6446

R036-179 ACCOUNT 11007

REPORT NUMBER

RFI/BIO GRO

172 98TH AVE
OAKLAND CA 94603-1004

COLTON

CHRIS MARKS
COPY TO: MILLERSVILLE

BIOSOLIDS ANALYSIS REPORT

LAB NUMBER = 40651
SAMPLE ID = COLTON

DATE SAMPLED 02/09/00
DATE RECEIVED 02/10/00
DATE REPORTED 02/15/00

PARAMETER	RESULT (Z)	RESULT (MG/KG)	DETECTION LIMIT (MG/KG)	ANALYST	ANALYSIS DATE	METHOD REFERENCE
SOLIDS(AS IS)	70.13	701300	100	KCS	02/10/00	SM 2540G
NITROGEN(TKN)	0.96	9600	100	KCS	02/11/00	EPA 351.3
PHOSPHORUS	1.01	10100	100	JCM	02/11/00	SW 846-6010B
POTASSIUM	0.33	3300	100	JCM	02/11/00	SW 846-6010B
SULFUR	0.32	3200	100	JCM	02/11/00	SW 846-6010B
CALCIUM	2.07	20700	100	JCM	02/11/00	SW 846-6010B
MAGNESIUM	0.67	6700	100	JCM	02/11/00	SW 846-6010B
SODIUM	0.06	600	100	JCM	02/11/00	SW 846-6010B
IRON		17600	1	JCM	02/11/00	SW 846-6010B
ALUMINUM		18100	10	JCM	02/11/00	SW 846-6010B
MANGANESE		309	1	JCM	02/11/00	SW 846-6010B
COPPER		202	1	JCM	02/11/00	SW 846-6010B
ZINC		493	1	JCM	02/11/00	SW 846-6010B
AMMONIA-NITROGEN	0.03	300	100	KCS	02/11/00	EPA 350.2
NO3-NO2 NITROGEN		769	10	KCS	02/11/00	SM 4500-NO3 F
CADMIUM		2.1	1	JCM	02/11/00	SW 846-6010B
CHROMIUM		76	5	JCM	02/11/00	SW 846-6010B
NICKEL		60	5	JCM	02/11/00	SW 846-6010B

"ALL VALUES ARE ON A DRY WEIGHT BASIS EXCEPT AS NOTED."

PAUL C. H. CHU

C. NORMAN JONES